

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Young et al.

Serial No.: 09/205,258

Group Art Unit: 1631

Filed: December 4, 1998

Examiner: Moran, M.

Title: **Precerebellin-like protein**
(as amended)

Attorney Docket No.: PZ007P1

ASSOCIATE POWER OF ATTORNEY

Commissioner for Patents
Washington, D.C. 20231

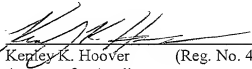
Sir:

Applicants' attorney hereby appoints all Practitioners at **Customer Number 22195** as its attorneys or agents with full power of substitution, association, and revocation to prosecute the application identified above, including any continuation or divisional applications, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Applicants' attorney also requests that the correspondence address remain the same.

Respectfully submitted,

Date: November 14, 2001


Katelyn K. Hoover (Reg. No. 40,302)
Attorney for Applicants

Human Genome Sciences, Inc.
9410 Key West Avenue
Rockville, MD 20850
(301) 610-5771 (phone)

KKH/lcc

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

207 Human Secreted Proteins

the specification of which was filed on **December 4, 1998** as Application Serial No. **Serial No: 09/205,258**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

	Filing Date	Applin No.
1.	06-Jun-1997	60/048,885
2.	06-Jun-1997	60/049,375
3.	06-Jun-1997	60/048,881
4.	06-Jun-1997	60/048,880
5.	06-Jun-1997	60/048,896
6.	06-Jun-1997	60/049,020
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11.	06-Jun-1997	60/048,971
12.	06-Jun-1997	60/048,964
13.	06-Jun-1997	60/048,882
14.	06-Jun-1997	60/048,899
15.	06-Jun-1997	60/048,893
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17.	06-Jun-1997	60/048,901
18.	06-Jun-1997	60/048,892
19.	06-Jun-1997	60/048,915
20.	06-Jun-1997	60/049,019
21.	06-Jun-1997	60/048,970
22.	06-Jun-1997	60/048,972

23.	06-Jun-1997	60/048,916
24.	06-Jun-1997	60/049,373
25.	06-Jun-1997	60/048,875
26.	06-Jun-1997	60/049,374
27.	06-Jun-1997	60/048,917
28.	06-Jun-1997	60/048,949
29.	06-Jun-1997	60/048,974
30.	06-Jun-1997	60/048,883
31.	06-Jun-1997	60/048,897
32.	06-Jun-1997	60/048,898
33.	06-Jun-1997	60/048,962
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71.	05-Sep-1997	60/057,777
72.	05-Sep-1997	60/057,634
73.	18-Dec-1997	60/070,923
74.	15-Jul-1998	60/092,921
75.	30-Jul-1998	60/094,637

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US98/11422

04 June 1998

Pending

(Application Serial No.)

(Filing Date)

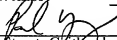
(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor:

Paul Young

Inventor's signature: 

Date: 6/3/99

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

John M. Greene

Inventor's signature: _____

Date: _____

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Citizenship: DE

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Full name of additional joint inventor: Ann M. Ferrie

Inventor's signature: _____ Date: _____
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Full name of additional first joint inventor: Steven M. Ruben

Inventor's signature: Steven M. Ruben Date: 5/11/99
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Full name of additional joint inventor: Craig A. Rosen

Inventor's signature: Craig A. Rosen Date: 5/11/99
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Post Office Address: same as above

Full name of additional joint inventor: Jing-Shan Hu

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Full name of additional joint inventor: Henrik S. Olsen

Inventor's signature: Henrik S. Olsen Date: 5/10/99
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Full name of additional joint inventor: Reinhard Ebner

Inventor's signature: Reinhard Ebner Date: 5/10/99
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Full name of additional joint inventor: Laurie A. Brewer

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Full name of additional joint inventor: Paul A. Moore

Inventor's signature: Paul A. Moore Date: 5/13/99
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Full name of additional joint inventor: Yanggu Shi

Inventor's signature: Yanggu Shi Date: 5/14/99
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Full name of additional joint inventor: Kimberly Florence

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Full name of additional joint inventor: David W. Lafleur

Inventor's signature: *David W. Lafleur* Date: 5/13/99
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Full name of additional joint inventor: Jian Ni

Inventor's signature: *Jian Ni* Date: 5/2/99
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Full name of additional joint inventor: Ping Fan

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Ying-Fei Wei

Inventor's signature: _____ Date: _____
Residence: 242 Gravat Dr., Berkeley, California 94705 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Carrie L. Fischer

Inventor's signature: *Carrie L. Fischer* Date: 05/10/99
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Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature: *Daniel R. Soppet* Date: 5/4/99
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Full name of additional joint inventor: Yi Li

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Zhizhen Zeng

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Hla Kyaw

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Guo-Liang Yu

Inventor's signature: _____ Date: _____
Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: _____
Post Office Address: same as above

Full name of additional joint inventor: Ping Feng

Inventor's signature: Ping Feng Date: 5/24/99
Residence: 4 Relda Court, Gaithersburg, MD 20878 Citizenship: CN
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Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature: _____ Date: _____
Residence: 1055 Snipe Court, Carlsbad, CA 92009 Citizenship: US
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Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: _____ Date: _____
Residence: 9729 Clagett Farm Drive, Potomac, MD 20854 Citizenship: US
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Full name of additional joint inventor: Kenneth C. Carter

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Human Genome Sciences, Inc.
9410 Key West Avenue
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301-309-8504 Phone 301-309-8439 Fax

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PCT/US98/11422

(Application Serial No.)

04 June 1998

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Full name of additional joint inventor:

Paul Young

Inventor's signature: _____

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

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Date: _____

Citizenship: US

Full name of additional joint inventor:

John M. Greene

Inventor's signature: John M. Greene

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Date: JUNE 3, 1999

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Full name of additional first joint inventor: Steven M. Ruben
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Full name of additional joint inventor: Yanggu Shi
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Post Office Address: same as above

Full name of additional joint inventor: Charles Florence

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Kimberly Florence

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: David W. Lafleur

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Ping Fan

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Full name of additional joint inventor: Ying-Fei Wei

Inventor's signature: _____ Date: _____
Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Carrie L. Fischer

Inventor's signature: _____ Date: _____
Residence: 5810 Hall Street, Burke, Virginia 22015 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature: _____ Date: _____
Residence: 15050 Stillfield Place, Centreville, VA 22020 Citizenship: US
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Full name of additional joint inventor: Yi Li

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Residence: 1247 Lakeside Drive, #3034, Sunnyvale, CA 94086 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Zhizhen Zeng

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Hla Kyaw

Inventor's signature: _____ Date: _____
Residence: 520 Sugarbush Circle, Frederick, MD 21703 Citizenship: Burma
Post Office Address: same as above

Full name of additional joint inventor: Guo-Liang Yu

Inventor's signature: _____ Date: _____
Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ping Feng

Inventor's signature: _____ Date: _____
Residence: 4 Relda Court, Gaithersburg, MD 20878 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature: _____ Date: _____
Residence: 1055 Snipe Court, Carlsbad, CA 92009 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: _____ Date: _____
Residence: 9729 Clagett Farm Drive, Potomac, MD 20854 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Kenneth C. Carter

Inventor's signature: _____ Date: _____
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Human Genome Sciences, Inc.
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9.	06-Jun-1997	60/048,884	31.	06-Jun-1997	60/048,897
10.	06-Jun-1997	60/048,894	32.	06-Jun-1997	60/048,898
11.	06-Jun-1997	60/048,971	33.	06-Jun-1997	60/048,962
12.	06-Jun-1997	60/048,964	34.	06-Jun-1997	60/048,963
13.	06-Jun-1997	60/048,882	35.	06-Jun-1997	60/048,877
14.	06-Jun-1997	60/048,899	36.	06-Jun-1997	60/048,878
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PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor:

Paul Young

Inventor's signature: _____

Date: _____

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

John M. Greene

Inventor's signature: _____

Date: _____

Residence: 872 Diamond Drive, Gaithersburg, MD 20878

Citizenship: DE

Post Office Address: same as above

Full name of additional joint inventor: Ann M. Ferrie
Inventor's signature: *Ann M. Ferrie* Date: 6/10/99
Residence: 120 Fox Run Drive, Tewksbury, MA 01876 Citizenship: US
Post Office Address: same as above

Full name of additional first joint inventor: Steven M. Ruben

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Reinhard Ebner

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Laurie A. Brewer

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Full name of additional joint inventor: Paul A. Moore

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Yanggu Shi

Inventor's signature: _____ Date: _____
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Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: David W. Lafleur

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ping Fan

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Ying-Fei Wei

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Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Yi Li

Inventor's signature: _____ Date: _____
Residence: 1247 Lakeside Drive, #3034, Sunnyvale, CA 94086 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Zhizhen Zeng

Inventor's signature: _____ Date: _____
Residence: 13950 Saddlevue Drive, Gaithersburg, MD 20878 Citizenship: CN
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Full name of additional joint inventor: Hla Kyaw

Inventor's signature: _____ Date: _____
Residence: 520 Sugarbush Circle, Frederick, MD 21703 Citizenship: Burma
Post Office Address: same as above

Full name of additional joint inventor: Guo-Liang Yu

Inventor's signature: _____ Date: _____
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Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Patrick J. Dillon

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Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Kenneth C. Carter

Inventor's signature: _____ Date: _____
Residence: 11601 Brandy Hall Lane, North Potomac, MD 20878 Citizenship: US
Post Office Address: same as above

Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

207 Human Secreted Proteins

the specification of which was filed on **December 4, 1998** as Application Serial No. **Serial No: 09/205,258**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

	Filing Date	Appln No.
1.	06-Jun-1997	60/048,885
2.	06-Jun-1997	60/049,375
3.	06-Jun-1997	60/048,881
4.	06-Jun-1997	60/048,880
5.	06-Jun-1997	60/048,896
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19.	06-Jun-1997	60/048,915
20.	06-Jun-1997	60/049,019
21.	06-Jun-1997	60/048,970
22.	06-Jun-1997	60/048,972

23.	06-Jun-1997	60/048,916
24.	06-Jun-1997	60/049,373
25.	06-Jun-1997	60/048,875
26.	06-Jun-1997	60/049,374
27.	06-Jun-1997	60/048,917
28.	06-Jun-1997	60/048,949
29.	06-Jun-1997	60/048,974
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PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302), James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

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Inventor's signature: _____

Date: _____

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John M. Greene

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Full name of additional joint inventor: Ann M. Ferrie
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Full name of additional joint inventor: Jian Ni

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Full name of additional joint inventor: Zhizhen Zeng

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Full name of additional joint inventor: Hla Kyaw

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Full name of additional joint inventor: Guo-Liang Yu

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301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

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207 Human Secreted Proteins

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(Number)	(Country)	(Day/Month/Year Filed)	Priority Claimed	
			Yes	No

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PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor:

Paul Young

Inventor's signature: _____

Date: _____

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

John M. Greene

Inventor's signature: _____

Date: _____

Residence: 872 Diamond Drive, Gaithersburg, MD 20878

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Post Office Address: same as above

Full name of additional joint inventor: Ann M. Ferrie
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Residence: 120 Fox Run Drive, Tewksbury, MA 01876 Citizenship: US
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Full name of additional first joint inventor: Steven M. Ruben
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Full name of additional joint inventor: Jing-Shan Hu
Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Henrik S. Olsen
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Full name of additional joint inventor: Kimberly Florence

Inventor's signature: _____ Date: _____
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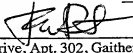
Full name of additional joint inventor: David W. Lafleur

Inventor's signature: _____ Date: _____
Residence: 3142 Quesada St. NW Washington DC 20015 Citizenship: DE
Post Office Address: same as above

Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ping Fan

Inventor's signature:  Date: June 11, 1999
Residence: 335 West Side Drive, Apt. 302, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ying-Fei Wei

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Full name of additional joint inventor: Zhizhen Zeng

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Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

207 Human Secreted Proteins

the specification of which was filed on **December 4, 1998** as Application Serial No. **Serial No: 09/205,258**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

	Filing Date	Appln No.			
1.	06-Jun-1997	60/048,885	23.	06-Jun-1997	60/048,916
2.	06-Jun-1997	60/049,375	24.	06-Jun-1997	60/049,373
3.	06-Jun-1997	60/048,881	25.	06-Jun-1997	60/048,875
4.	06-Jun-1997	60/048,880	26.	06-Jun-1997	60/049,374
5.	06-Jun-1997	60/048,896	27.	06-Jun-1997	60/048,917
6.	06-Jun-1997	60/049,020	28.	06-Jun-1997	60/048,949
7.	06-Jun-1997	60/048,876	29.	06-Jun-1997	60/048,974
8.	06-Jun-1997	60/048,895	30.	06-Jun-1997	60/048,883
9.	06-Jun-1997	60/048,884	31.	06-Jun-1997	60/048,897
10.	06-Jun-1997	60/048,894	32.	06-Jun-1997	60/048,898
11.	06-Jun-1997	60/048,971	33.	06-Jun-1997	60/048,962
12.	06-Jun-1997	60/048,964	34.	06-Jun-1997	60/048,963
13.	06-Jun-1997	60/048,882	35.	06-Jun-1997	60/048,877
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22.	06-Jun-1997	60/048,972	44.	05-Sep-1997	60/057,764
			45.	05-Sep-1997	60/057,643

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56.	05-Sep-1997	60/057,644
57.	05-Sep-1997	60/057,765
58.	05-Sep-1997	60/057,762
59.	05-Sep-1997	60/057,775
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61.	05-Sep-1997	60/057,774
62.	05-Sep-1997	60/057,649
63.	05-Sep-1997	60/057,770
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66.	05-Sep-1997	60/057,760
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70.	05-Sep-1997	60/057,628
71.	05-Sep-1997	60/057,777
72.	05-Sep-1997	60/057,634
73.	18-Dec-1997	60/070,923
74.	15-Jul-1998	60/092,921
75.	30-Jul-1998	60/094,657

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

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207 Human Secreted Proteins

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Priority Claimed

Yes No

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04 June 1998

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Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: CN
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Full name of additional joint inventor: Ping Fan

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Ying-Fei Wei

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Post Office Address: same as above

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Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature: _____ Date: _____
Residence: 15050 Stillfield Place, Centreville, VA 22020 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Yi Li

Inventor's signature: Yi Li Date: 6/6/89
Residence: 1247 Lakeside Drive, #3034, Sunnyvale, CA 94086 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Zhizhen Zeng

Inventor's signature: _____ Date: _____
Residence: 13950 Saddlevue Drive, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Hla Kyaw

Inventor's signature: _____ Date: _____
Residence: 520 Sugarbush Circle, Frederick, MD 21703 Citizenship: Burma
Post Office Address: same as above

Full name of additional joint inventor: Guo-Liang Yu

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

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Inventor's signature: _____ Date: _____
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Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Gregory A. Endress

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Full name of additional joint inventor: Kenneth C. Carter

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Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

207 Human Secreted Proteins

the specification of which was filed on **December 4, 1998** as Application Serial No. **Serial No: 09/205,258**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

	Filing Date	Appln No.
1.	06-Jun-1997	60/048,885
2.	06-Jun-1997	60/049,375
3.	06-Jun-1997	60/048,881
4.	06-Jun-1997	60/048,880
5.	06-Jun-1997	60/048,896
6.	06-Jun-1997	60/049,020
7.	06-Jun-1997	60/048,876
8.	06-Jun-1997	60/048,895
9.	06-Jun-1997	60/048,884
10.	06-Jun-1997	60/048,894
11.	06-Jun-1997	60/048,971
12.	06-Jun-1997	60/048,964
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14.	06-Jun-1997	60/048,899
15.	06-Jun-1997	60/048,893
16.	06-Jun-1997	60/048,900
17.	06-Jun-1997	60/048,901
18.	06-Jun-1997	60/048,892
19.	06-Jun-1997	60/048,915
20.	06-Jun-1997	60/049,019
21.	06-Jun-1997	60/048,970
22.	06-Jun-1997	60/048,972

23.	06-Jun-1997	60/048,916
24.	06-Jun-1997	60/049,373
25.	06-Jun-1997	60/048,875
26.	06-Jun-1997	60/049,374
27.	06-Jun-1997	60/048,917
28.	06-Jun-1997	60/048,949
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30.	06-Jun-1997	60/048,883
31.	06-Jun-1997	60/048,897
32.	06-Jun-1997	60/048,898
33.	06-Jun-1997	60/048,962
34.	06-Jun-1997	60/048,963
35.	06-Jun-1997	60/048,877
36.	06-Jun-1997	60/048,878
37.	05-Sep-1997	60/057,645
38.	05-Sep-1997	60/057,642
39.	05-Sep-1997	60/057,668
40.	05-Sep-1997	60/057,635
41.	05-Sep-1997	60/057,627
42.	05-Sep-1997	60/057,667
43.	05-Sep-1997	60/057,666
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61.	05-Sep-1997	60/057,774
62.	05-Sep-1997	60/057,649
63.	05-Sep-1997	60/057,770
64.	05-Sep-1997	60/057,771
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69.	05-Sep-1997	60/057,629
70.	05-Sep-1997	60/057,628
71.	05-Sep-1997	60/057,777
72.	05-Sep-1997	60/057,634
73.	18-Dec-1997	60/070,923
74.	15-Jul-1998	60/092,921
75.	30-Jul-1998	60/094,657

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302), James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor:

Paul Young

Inventor's signature: _____

Date: _____

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

John M. Greene

Inventor's signature: _____

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Full name of additional joint inventor: Ann M. Ferrie

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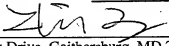
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301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

207 Human Secreted Proteins

the specification of which was filed on **December 4, 1998** as Application Serial No. **Serial No: 09/205,258**.

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Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

	Filing Date	Appln No.		Filing Date	Appln No.
1.	06-Jun-1997	60/048,885	23.	06-Jun-1997	60/048,916
2.	06-Jun-1997	60/049,375	24.	06-Jun-1997	60/049,373
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8.	06-Jun-1997	60/048,895	30.	06-Jun-1997	60/048,883
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10.	06-Jun-1997	60/048,894	32.	06-Jun-1997	60/048,898
11.	06-Jun-1997	60/048,971	33.	06-Jun-1997	60/048,962
12.	06-Jun-1997	60/048,964	34.	06-Jun-1997	60/048,963
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16.	06-Jun-1997	60/048,900	38.	05-Sep-1997	60/057,642
17.	06-Jun-1997	60/048,901	39.	05-Sep-1997	60/057,668
18.	06-Jun-1997	60/048,892	40.	05-Sep-1997	60/057,635
19.	06-Jun-1997	60/048,915	41.	05-Sep-1997	60/057,627
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PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

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Full name of additional joint inventor:

Paul Young

Inventor's signature:

Date:

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

John M. Greene

Inventor's signature:

Date:

Residence: 872 Diamond Drive, Gaithersburg, MD 20878

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Full name of additional joint inventor: Ann M. Ferrie
Inventor's signature: _____ **Date:** _____
Residence: 120 Fox Run Drive, Tewksbury, MA 01876 **Citizenship:** US
Post Office Address: same as above

Full name of additional first joint inventor: Steven M. Ruben
Inventor's signature: _____ **Date:** _____
Residence: 18528 Heritage Hills Drive, Olney, MD 20832 **Citizenship:** US
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Full name of additional joint inventor: Craig A. Rosen
Inventor's signature: _____ **Date:** _____
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Full name of additional joint inventor: Jing-Shan Hu
Inventor's signature: _____ **Date:** _____
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Post Office Address: same as above

Full name of additional joint inventor: Henrik S. Olsen
Inventor's signature: _____ **Date:** _____
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Full name of additional joint inventor: Reinhard Ebner
Inventor's signature: _____ **Date:** _____
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Post Office Address: same as above

Full name of additional joint inventor: Laurie A. Brewer
Inventor's signature: _____ **Date:** _____
Residence: 410 Van Dyke St. Apt. 115 St. Paul, Minnesota 55119-4321 **Citizenship:** US
Post Office Address: same as above

Full name of additional joint inventor: Paul A. Moore
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Post Office Address: same as above

Full name of additional joint inventor: Charles Florence

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Kimberly Florence

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I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

	Filing Date	Appln No.			
1.	06-Jun-1997	60/048,885	23.	06-Jun-1997	60/048,916
2.	06-Jun-1997	60/049,375	24.	06-Jun-1997	60/049,373
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75.	30-Jul-1998	60/094,657

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PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of additional joint inventor:

Paul Young

Inventor's signature:

Date:

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

John M. Greene

Inventor's signature:

Date:

Residence: 872 Diamond Drive, Gaithersburg, MD 20878

Citizenship: DE

Post Office Address: same as above

Full name of additional joint inventor: Ann M. Ferrie
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Full name of additional joint inventor: Henrik S. Olsen
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Full name of additional joint inventor: Laurie A. Brewer
Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Paul A. Moore
Inventor's signature: _____ Date: _____
Residence: 19005 Leatherbark Drive, Germantown, MD 20874 Citizenship: UK
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Full name of additional joint inventor: Yanggu Shi
Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Charles Florence

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Kimberly Florence

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: David W. Lafleur

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Ping Fan

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Ying-Fei Wei

Inventor's signature: _____ Date: _____
Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Carrie L. Fischer

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional joint inventor: Yi Li

Inventor's signature: _____ Date: _____
Residence: 1247 Lakeside Drive, #3034, Sunnyvale, CA 94086 Citizenship: CN
Post Office Address: same as above

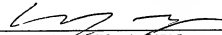
Full name of additional joint inventor: Zhizhen Zeng

Inventor's signature: _____ Date: _____
Residence: 13950 Saddlevue Drive, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Hla Kyaw

Inventor's signature: _____ Date: _____
Residence: 520 Sugarbush Circle, Frederick, MD 21703 Citizenship: Burma
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Full name of additional joint inventor: Guo-Liang Yu

Inventor's signature:  Date: 7/23/99
Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ping Feng

Inventor's signature: _____ Date: _____
Residence: 4 Relda Court, Gaithersburg, MD 20878 Citizenship: US
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Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: _____ Date: _____
Residence: 9729 Clagett Farm Drive, Potomac, MD 20854 Citizenship: US
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Full name of additional joint inventor: Kenneth C. Carter

Inventor's signature: _____ Date: _____
Residence: 11601 Brandy Hall Lane, North Potomac, MD 20850 Citizenship: US
Post Office Address: same as above

Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

207 Human Secreted Proteins

the specification of which was filed on **December 4, 1998** as Application Serial No. **Serial No: 09/205,258**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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Prior Foreign Application(s):

Priority Claimed

Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

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PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

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Full name of additional joint inventor:

Paul Young

Inventor's signature: _____

Date: _____

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

John M. Greene

Inventor's signature: _____

Date: _____

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Citizenship: DE

Post Office Address: same as above

Full name of additional joint inventor: Ann M. Ferrie
Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Full name of additional first joint inventor: Steven M. Ruben
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Full name of additional joint inventor: Charles Florence

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Full name of additional joint inventor: Kimberly Florence

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Full name of additional joint inventor: David W. Lafleur

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Zhizhen Zeng

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Full name of additional joint inventor: Hla Kyaw

Inventor's signature: _____ Date: _____
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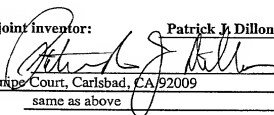
Full name of additional joint inventor: Guo-Liang Yu

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Full name of additional joint inventor: Kenneth C. Carter

Inventor's signature: _____ Date: _____
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Human Genome Sciences, Inc.
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301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

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207 Human Secreted Proteins

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50.	05-Sep-1997	60/057,647
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54.	05-Sep-1997	60/057,654
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PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

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Full name of additional joint inventor:

Paul Young

Inventor's signature: _____

Date: _____

Residence: 122 Beckwith Street, Gaithersburg, MD 20878

Citizenship: US

Post Office Address: same as above

Full name of additional joint inventor:

John M. Greene

Inventor's signature: _____

Date: _____

Residence: 872 Diamond Drive, Gaithersburg, MD 20878

Citizenship: DE

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Full name of additional joint inventor: Ann M. Ferrie

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Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ping Fan

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Yi Li

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Zhizhen Zeng

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Hla Kyaw

Inventor's signature: _____ Date: _____
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Full name of additional joint inventor: Guo-Liang Yu

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Post Office Address: same as above

Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: Gregory A. Endress Date: 10/3/99
Residence: 9729 Clagett Farm Drive, Potomac, MD 20854 Citizenship: US
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Full name of additional joint inventor: Kenneth C. Carter

Inventor's signature: _____ Date: _____
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Post Office Address: same as above

Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

207 Human Secreted Proteins

the specification of which was filed on **December 4, 1998** as Application Serial No. **Serial No: 09/205,258**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed

Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

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1.	06-Jun-1997	60/048,885	23.	06-Jun-1997	60/048,916
2.	06-Jun-1997	60/049,375	24.	06-Jun-1997	60/049,373
3.	06-Jun-1997	60/048,881	25.	06-Jun-1997	60/048,875
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5.	06-Jun-1997	60/048,896	27.	06-Jun-1997	60/048,917
6.	06-Jun-1997	60/049,020	28.	06-Jun-1997	60/048,949
7.	06-Jun-1997	60/048,876	29.	06-Jun-1997	60/048,974
8.	06-Jun-1997	60/048,895	30.	06-Jun-1997	60/048,883
9.	06-Jun-1997	60/048,884	31.	06-Jun-1997	60/048,897
10.	06-Jun-1997	60/048,894	32.	06-Jun-1997	60/048,898
11.	06-Jun-1997	60/048,971	33.	06-Jun-1997	60/048,962
12.	06-Jun-1997	60/048,964	34.	06-Jun-1997	60/048,963
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PCT/US98/11422

(Application Serial No.)

04 June 1998

(Filing Date)

Pending

(Status: patented, pending, abandoned)

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Date:

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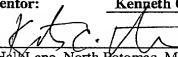
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Full name of additional joint inventor: Kenneth C. Carter

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04 June 1998

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Citizenship: DE

Post Office Address: same as above

Ref No: PZ007P1
Serial No: 09/205,253

Full name of additional joint inventor: Ann M. Ferrie
Inventor's signature: _____ Date: _____
Residence: 120 Fox Run Drive, Tewksbury, MA 01876 Citizenship: US
Post Office Address: same as above

Full name of additional first joint inventor: Steven M. Ruben
Inventor's signature: _____ Date: _____
Residence: 18528 Heritage Hills Drive, Olney, MD 20832 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Craig A. Rosen
Inventor's signature: _____ Date: _____
Residence: 1247 Rolling Hills Road, Laytonville, MD 20882 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Jing-Shan Hu
Inventor's signature: [Signature] Date: 9/2/99
Residence: 1247 Lakeside Drive #3034, Sunnyvale, CA 94086 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Henrik S. Olsen
Inventor's signature: _____ Date: _____
Residence: 182 Kendrick Place #24, Gaithersburg, MD 20878 Citizenship: DK
Post Office Address: same as above

Full name of additional joint inventor: Reinhard Ebner
Inventor's signature: _____ Date: _____
Residence: 9906 Shelburne Terrace #316, Gaithersburg, MD 20878 Citizenship: DE
Post Office Address: same as above

Full name of additional joint inventor: Laurie A. Brewer
Inventor's signature: _____ Date: _____
Residence: 410 Van Dyke St. Apt. 115 St. Paul, Minnesota 55119-4321 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Paul A. Moore
Inventor's signature: _____ Date: _____
Residence: 19005 Leatherbark Drive, Germantown, MD 20874 Citizenship: UK
Post Office Address: same as above

Full name of additional joint inventor: Yangu Shi
Inventor's signature: _____ Date: _____
Residence: 437 West Side Drive, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Charles Florence

Inventor's signature: _____ Date: _____
Residence: 12805 Atlantic Avenue, Rockville, MD 20851 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Kimberly Florence

Inventor's signature: _____ Date: _____
Residence: 12805 Atlantic Avenue, Rockville, MD 20851 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: David W. Lafleur

Inventor's signature: _____ Date: _____
Residence: 3142 Quesada St. NW Washington DC 20015 Citizenship: DE
Post Office Address: same as above

Full name of additional joint inventor: Jian Ni

Inventor's signature: _____ Date: _____
Residence: 5502 Manorfield Road, Rockville, MD 20853 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ping Fan

Inventor's signature: _____ Date: _____
Residence: 335 West Side Drive, Apt. 302, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ying-Fei Wei

Inventor's signature: _____ Date: _____
Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Carrie L. Fischer

Inventor's signature: _____ Date: _____
Residence: 5810 Hall Street, Burke, Virginia 22015 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Daniel R. Soppet

Inventor's signature: _____ Date: _____
Residence: 15050 Stillfield Place, Centreville, VA 22020 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Yi Li

Inventor's signature: _____ Date: _____
Residence: 1247 Lakeside Drive, #3034, Sunnyvale, CA 94086 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Zhizhen Zeng

Inventor's signature: _____ Date: _____
Residence: 13950 Saddleview Drive, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Hla Kyaw

Inventor's signature: _____ Date: _____
Residence: 520 Sugarbush Circle, Frederick, MD 21703 Citizenship: Burma
Post Office Address: same as above

Full name of additional joint inventor: Guo-Liang Yu

Inventor's signature: _____ Date: _____
Residence: 242 Gravatt Dr., Berkeley, California 94705 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Ping Feng

Inventor's signature: _____ Date: _____
Residence: 4 Relda Court, Gaithersburg, MD 20878 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Patrick J. Dillon

Inventor's signature: _____ Date: _____
Residence: 1055 Snipe Court, Carlsbad, CA 92009 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Gregory A. Endress

Inventor's signature: _____ Date: _____
Residence: 9729 Clagett Farm Drive, Potomac, MD 20854 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Kenneth C. Carter

Inventor's signature: _____ Date: _____
Residence: 11601 Brandy Hall Lane, North Potomac, MD 20878 Citizenship: US
Post Office Address: same as above

Human Genome Sciences, Inc.
9410 Key West Avenue Rockville, MD 20850
301-309-8504 Phone 301-309-8439 Fax

Ref No: FZ007P1
Serial No. 09/205,258

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; Charles Florence; Kimberly Florence; David W. Lafleur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hla Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No. 09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: Paul Young Date: 6/3/99
Paul Young

Inventor's Signature: John M. Greene Date: _____
John M. Greene

Inventor's Signature: Ann M. Ferrie Date: _____
Ann M. Ferrie

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: Steven M. Ruben Date: 5/11/99Inventor's Signature: Craig A. Rosen Date: 5/10/99Inventor's Signature: _____ Date: _____
Jing-Shan HuInventor's Signature: Henrik S. Olsen Date: 5/10/99Inventor's Signature: Reinhard Ebner Date: 5/10/99Inventor's Signature: _____ Date: _____
Laurie A. BrewerInventor's Signature: Paul A. Moore Date: 5/13/99Inventor's Signature: Yanggu Shi Date: 5/14/99Inventor's Signature: Charles Florence Date: 5/17/99Inventor's Signature: Kimberly Florence Date: 5/13/99Inventor's Signature: David W. Lafleur Date: 5/13/99Inventor's Signature: Jian Ni Date: 5/12/99Inventor's Signature: _____ Date: _____
Ping FanInventor's Signature: _____ Date: _____
Ying-Fei WeiInventor's Signature: Carrie L. Fischer Date: 05/10/99

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: Daniel R. Soppet Date: 5/11/99
Daniel R. SoppetInventor's Signature: _____ Date: _____
Yi LiInventor's Signature: _____ Date: _____
Zhizhen ZengInventor's Signature: _____ Date: _____
Hla KyawInventor's Signature: _____ Date: _____
Guo-Liang YuInventor's Signature: Ping Feng Date: 5/24/99
Ping FengInventor's Signature: _____ Date: _____
Patrick J. DillonInventor's Signature: _____ Date: _____
Gregory A. EndressInventor's Signature: _____ Date: _____
Kenneth C. CarterHuman Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: FZ007P1
Serial No. 09/205,258

ASSIGNMENT

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207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No. 09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: _____ Date: _____

Paul Young

Inventor's Signature: _____ Date: JUNE 3, 1999

John M. Greene

Inventor's Signature: _____ Date: _____

Ann M. Ferrie

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: _____ Date: _____
Steven M. RubenInventor's Signature: _____ Date: _____
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Jing-Shan HuInventor's Signature: _____ Date: _____
Henrik S. OlsenInventor's Signature: _____ Date: _____
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Kimberly FlorenceInventor's Signature: _____ Date: _____
David W. LafleurInventor's Signature: _____ Date: _____
Jian NiInventor's Signature: _____ Date: _____
Ping FanInventor's Signature: _____ Date: _____
Ying-Fei WeiInventor's Signature: _____ Date: _____
Carrie L. Fischer

Ref No: PZ007P1
Serial No. 09/205,258

Inventor's Signature: Daniel R. Soppet Date: _____

Inventor's Signature: Yi Li Date: _____

Inventor's Signature: Zhizhen Zeng Date: _____

Inventor's Signature: Hla Kyaw Date: _____

Inventor's Signature: Gao-Liang Yu Date: _____

Inventor's Signature: Ping Feng Date: _____

Inventor's Signature: Patrick J. Dillon Date: _____

Inventor's Signature: Gregory A. Endress Date: _____

Inventor's Signature: Kenneth C. Carter. Date: _____

Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
Serial No. 09/205,258

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanguo Shi; Charles Florence; Kimberly Florence; David W. Lafleur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hla Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No. 09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: _____ Date: _____
Paul Young

Inventor's Signature: _____ Date: _____
John M. Greene

Inventor's Signature:  _____ Date: 6/10/99
Ann M. Ferrie

Ref No: FZ007P1
Serial No. 09/205,258Inventor's Signature: Steven M. Ruben Date: _____Inventor's Signature: Craig A. Rosen Date: _____Inventor's Signature: Jing-Shan Hu Date: _____Inventor's Signature: Henrik S. Olsen Date: _____Inventor's Signature: Reinhard Ebner Date: _____Inventor's Signature: Laurie A. Brewer Date: _____Inventor's Signature: Paul A. Moore Date: _____Inventor's Signature: Yanggu Shi Date: _____Inventor's Signature: Charles Florence Date: _____Inventor's Signature: Kimberly Florence Date: _____Inventor's Signature: David W. Lafleur Date: _____Inventor's Signature: Jian Ni Date: _____Inventor's Signature: Ping Fan Date: _____Inventor's Signature: Ying-Fei Wei Date: _____Inventor's Signature: Carrie L. Fischer Date: _____

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Daniel R. SoppetInventor's Signature: _____ Date: _____
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Patrick J. DillonInventor's Signature: _____ Date: _____
Gregory A. EndressInventor's Signature: _____ Date: _____
Kenneth C. Carter.Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; Charles Florence; Kimberly Florence; David W. Lafleur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hia Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

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Steven M. RubenInventor's Signature: _____ Date: _____
Craig A. RosenInventor's Signature:  4/1 Date: 9/1/99
Jing-Shan HuInventor's Signature: _____ Date: _____
Henrik S. OlsenInventor's Signature: _____ Date: _____
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Inventor's Signature: Kenneth C. Carter Date: _____

Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
Serial No. 09/205,258-

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; Charles Florence; Kimberly Florence; David W. Lafleur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hla Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No. 09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

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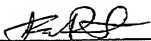
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Paul Young

Inventor's Signature: _____ Date: _____
John M. Greene

Inventor's Signature: _____ Date: _____
Ann M. Ferrie

Ref No: PZ007P1
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Ping FanInventor's Signature: Ying-Fei Wei Date: _____Inventor's Signature: Carrie L. Fischer Date: _____

Ref No: PZ007P1
Serial No. 09/205,238

Inventor's Signature: Daniel R. Soppet Date: _____

Inventor's Signature: Yi Li Date: _____

Inventor's Signature: Zhizhen Zeng Date: _____

Inventor's Signature: Hla Kyaw Date: _____

Inventor's Signature: Guo-Liang Yu Date: _____

Inventor's Signature: Ping Feng Date: _____

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Inventor's Signature: Gregory A. Endress Date: _____

Inventor's Signature: Kenneth C. Carter. Date: _____

Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: FZ007P1
Serial No. 09/205,258

ASSIGNMENT

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207 Human Secreted Proteins

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David W. LafleurInventor's Signature: _____ Date: _____
Jian NiInventor's Signature: _____ Date: _____
Ping FanInventor's Signature: _____ Date: 7/20/19
Ying-Fei WeiInventor's Signature: _____ Date: _____
Carrie L. Fischer

Ref No: PZ007P1
Serial No. 09/205,258

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Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
Serial No. 09/205,253

ASSIGNMENT

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207 Human Secreted Proteins

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Carrie L. Fischer

Ref No: PZ007P1
Serial No. 09/205,258Inventor's Signature: Daniel R. Soppet Date: _____Inventor's Signature: Yi Li Date: 6/24/99Inventor's Signature: Zhizhen Zeng Date: _____Inventor's Signature: Hla Kyaw Date: _____Inventor's Signature: Guo-Liang Yu Date: _____Inventor's Signature: Ping Feng Date: _____Inventor's Signature: Patrick J. Dillon Date: _____Inventor's Signature: Gregory A. Endress Date: _____Inventor's Signature: Kenneth C. Carter. Date: _____Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
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Ref No: FZ007P1
Serial No. 09/205,258

ASSIGNMENT

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207 Human Secreted Proteins

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
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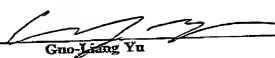
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Inventor's Signature:  Date: 7/23/99
Guo-Liang Yu

Inventor's Signature: Ping Feng Date: _____

Inventor's Signature: Patrick J. Dillon Date: _____

Inventor's Signature: Gregory A. Endress Date: _____

Inventor's Signature: Kenneth C. Carter. Date: _____

Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

Ref No: PZ007P1
Serial No. 09/205,258

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Paul Young; John M. Greene; Ann M. Ferrie; Steven M. Ruben; Craig A. Rosen; Jing-Shan Hu; Henrik S. Olsen; Reinhard Ebner; Laurie A. Brewer; Paul A. Moore; Yanggu Shi; Charles Florence; Kimberly Florence; David W. Lafleur; Jian Ni; Ping Fan; Ying-Fei Wei; Carrie L. Fischer; Daniel R. Soppet; Yi Li; Zhizhen Zeng; Hla Kyaw; Guo-Liang Yu; Ping Feng; Patrick J. Dillon; Gregory A. Endress; and Kenneth C. Carter, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

207 Human Secreted Proteins

for which application for United States Letters Patent was filed on December 4, 1998 and assigned Serial No.09/205,258, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), Kenley K. Hoover (Reg. No. 40,302), James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

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Paul Young

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Ann M. Ferrie

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Carrie L. Fischer

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Xi LiInventor's Signature: _____ Date: _____
Zhizhen ZengInventor's Signature: _____ Date: _____
Hla KyawInventor's Signature: _____ Date: _____
Guo-Liang YuInventor's Signature: _____ Date: _____
Ping FengInventor's Signature:  _____ Date: 06/2/99
Patrick J. DillonInventor's Signature: _____ Date: _____
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Kenneth C. Carter.Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
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